

EXHIBIT 5

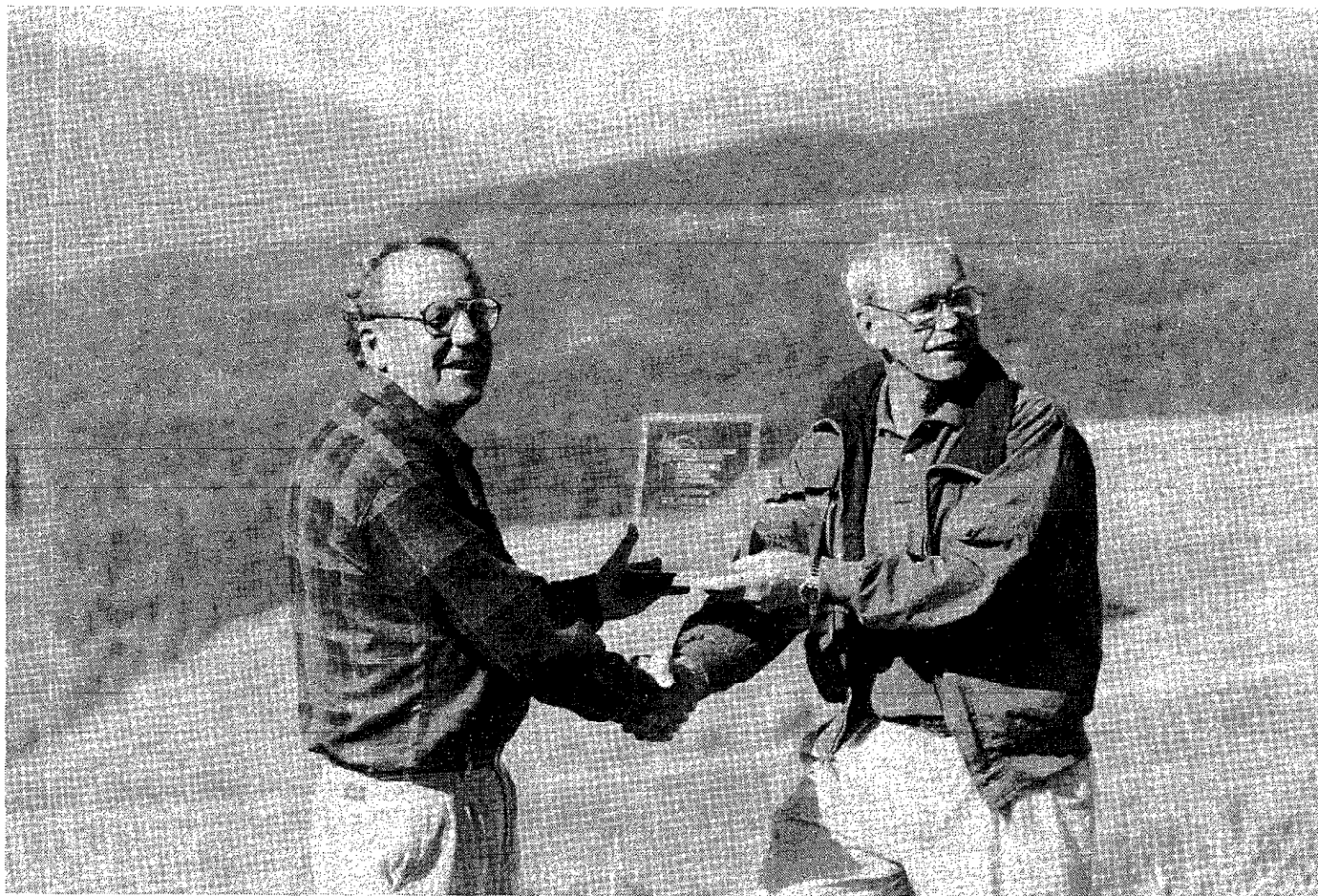
October 1993 Article, The Pick & Shovel Montana Mining Association

The **pick & shovel**

October 1993
93-10
(406) 443-7297

The Montana Mining Association
2301 Colonial Drive
Helena, MT 59601

In Pursuit Of Excellence...



...W.R. Grace Closes Vermiculite Mine With Class

The pick & shovel

A monthly publication of The Montana Mining Association.

October 1993 93-10

2301 Colonial Drive
Helena, Montana 59601

Gary A. Langley, Editor
Jane Dritshulus, Administrative Assistant

Executive Committee

Frank Gardner President
Montana Resources
Butte

Don Wilson Vice President
Golden Sunlight Mine
Whitehall

Tad Dale Secretary
Beal Mountain Mining Inc.
Anaconda

Fred Panion Treasurer
Montana Talc
Three Forks

Tom Locati AMM President
Magnum Oil
Butte

Robin McCulloch Chapter Liaison Officer
Montana Bureau of Mines
Butte

In This Issue...

Mine Closes...

The W.R. Grace Mine near Libby is a thing of the past, but the company closed it with class by embarking on a voluntary \$10 million reclamation projectPage 7

Environmental Excellence Recognized...

The Stillwater Mining Company, the first winner of the Northern Regional Forester's Environmental Excellence Award, causes little change in a quiet valley, except to improve the quality of life.....Page 11

Producers Meet Suppliers...

Jack Knebel, President of the American Mining Congress, will be the keynote speaker when mine operators meet with their suppliers to discuss mutual needs for the coming yearPage 21

Reclamation Explained...

Reclaiming mined land is an integral part of developing and operating a mine, says the president and CEO of AMAX Gold Inc.Page 27

Summary Judgement...

U.S. declares economic war on Norway to save the whalesPage 31

Trade Agreement Debated...

Minerals will play a modest but fundamental role in the total export trade picture if the North American Free Trade Agreement is ratifiedPage 35

News Digest...

Water nondegradation rules subject of hearings; two-thirds of mining claims in Montana are dropped because of new holding feePage 45

On The Cover...

Frank Gardner, president of the Montana Mining Association, presents Alan Stringer, manager of the W.R. Grace operation, with the Association's first "In Pursuit Of Excellence Award." The photo was taken by Ace Wright, an MMA Board member, on top of Vermiculite Mountain, near Libby.

Printed by
Century Lithographers, Helena, Montana



pick & shovel—3

WD-002658



Alan Stringer, Manager of the W.R. Grace Project at Libby, points out reclamation at what once was the site of the mine's tailings impoundment.

Voluntary Reclamation Project

W.R. Grace Closes Libby Vermiculite Mine After 67 Years

By Gary Langley
Executive Director
Montana Mining Association

Freshly fallen snow shimmers under the morning sun in the 94,000-acre Cabinet Mountains Wilderness Area. Across the valley from the town of Libby, a large branch antlered bull elk darts across the road leading to the summit of Vermiculite Mountain. Twenty to 30 elk usually graze in this vicinity on the lush grass that once was a tailings pile, now reclaimed.

Near the summit, deer and elk roam on slopes, now covered with grass and trees, where heavy equipment once dug vermiculite from the hillside and trucks hauled the ore down the hill to the mill.

Alan Stringer, manager of the operation, points to a grassy meadow.

"That's where my office used to be," he said.

Until three years ago, the meadow also was the site of a 10-story mill, ore storage shed and

other buildings associated with the mining operation. They now have been dismantled. There is no evidence that they once even existed.

More than 100 million tons of rock and dirt was taken from Vermiculite Mountain from

"We have proven that a mine can exist in a scenic area and that we can succeed in closing it—removing it from the face of the earth."

—Alan Stringer

W.R. Grace Mine Manager

1923-1990, first by the Zonolite Co. and then W.R. Grace. Only 800 acres of the 3,500 acres on Vermiculite Mountain was ever disturbed.

The mine closed in 1990, the victim of a sagging economy and diminished demand for vermiculite, once a major component of insulation used in the construction industry. At

(Continued on Page 8)

pick & shovel—7

Grace Closure

(Continued from Page 7)

its peak, the operation employed more than 250 Lincoln County residents and contributed \$6 million a year in taxes and wages to the local economy.

The operation was grandfathered under modern hardrock reclamation laws. Except for 14 acres, no topsoil was stored in anticipation of reclamation.

The company had posted a \$468,000 bond with the state, an amount not even close to those required of newer operations and not nearly enough to reclaim the disturbance. Once the mine closed, the company could have walked away.

But W.R. Grace is a community booster. In addition to the salaries and taxes it paid during its 67 years of operation, the company contributed to many community projects in a low-keyed manner that defied any self promotion. To have abandoned the mine would have left its work in Libby undone.

So the company voluntarily undertook a \$10-million project to reclaim the mine. The three-year job was done by 20 W.R. Grace employees who were kept on the payroll. The job was particularly difficult because most of the mining was done without anticipation of reclamation.

"We wanted the job to be done by W.R. Grace employees, not outsiders," Stringer said.

Where the tailings pond once was, there is now a green meadow. The dam, which once held back water and sediment, now holds back only dirt, grass and trees that were selected by soil scientists to conform with the area's soils, typography and climate. The dam itself has been modified in order to withstand a worst case scenario flood.

"I'm proud of what we did here," Stringer said.

The land will be used for something else, but mining probably will never occur there again even though there are sufficient reserves to last another century.

Last month, the Montana Mining Association Board of Directors toured the site and presented Stringer and W.R. Grace with its first "In Pursuit of Excellence" Award for voluntary reclamation work. Association President Frank Gardner said the award will continue to be

presented for outstanding achievements in mining as events merit.

"We have proven that a mine can exist in a scenic area," Stringer said. "And that we can succeed in closing it — removing it from the face of the earth." ✂





**Environmental
Science &
Engineering, Inc.**

A GILCORP Company

- Mine/Land Reclamation
- Water Resource Management
- Toxicology/Risk Assessment
- Permitting
- RCRA/CERCLA Compliance
- Natural Resource Damage Assessment

Butte, MT 406/782-0900 • Nationwide Network of Offices

**OIL AND GAS
HARD MINERALS**

AAPL-MAPL

PATRICK H. BEDDOW

CONSULTANT LANDMAN

P.O. Box 50216
BILLINGS, MONTANA 59105

OFF (406)248-8838
RES. (406)259-5127

AIR QUALITY

Permitting Monitoring

James W. Gelhaus
Consulting Meteorologist

P.O. Box 1196 • Townsend, MT 59644
(406) 266-4486 • FAX (406) 266-5634